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Serial Number: 10/625,759

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Inventor Information for 10/625759

Inventor Name	City	State/Country
SURNILLA, GOPICHANDRA	WEST BLOOMFIELD	MICHIGAN

Appln Info	Contents	Petition Info	Atty/Agent Info	Continuity Data	Foreign Data
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1	US 7059112 B2	20060613	Degradation detection method for an engine having a NOx sensor	60/277	60/276; 60/285; 73/23.21; 73/23.22	Bidner; David Karl et al.
1	US 7047932 B2	20060523	Method to improve fuel economy in lean burn engines with variable- displacement- like characteristics	123/198F	123/568.12	Surnilla; Gopichandra et al.
1	US 7043901 B2	20060516	Device and method for internal combustion engine control	60/285	60/274; 60/284; 60/297	Goralski, Jr.; Christian Thomas et al.
1	US 7032572 B2	20060425	Method for controlling an engine to obtain rapid catalyst heating	123/406.47	123/406.53; 123/443; 60/284; 701/113	Bidner; David Karl et al.
1	US 7025039 B2	20060411	System and method for controlling valve timing of an engine with cylinder deactivation	123/339.11	123/339.19; 123/406.45	Bidner; David et al.
1	US 7021046 B2	20060404	Engine system and method for efficient emission control device purging	60/285	123/481; 123/691; 60/274; 60/297	Surnilla; Gopichandra et al.
1	US 7003944 B2	20060228	Computing device to generate even heating in exhaust system	60/285	60/276	Surnilla; Gopichandra et al.
1	US 6978204 B2	20051220	Engine system and method with cylinder deactivation	701/103	123/325; 123/481; 60/274; 60/276	Surnilla; Gopichandra et al.
1	US 6955155 B2	20051018	Method for controlling transitions	123/339.11	123/399; 123/406.45; 123/406.53;	Surnilla; Gopichandra

			between operating modes of an engine for rapid heating of an emission control device		60/285; 701/113	
1	US 6945227 B2	20050920	Direct injection variable valve timing engine control system and method	123/399	123/90.15	Russell; John David et al.
1	US 6935306 B2	20050830	Lean idle speed control using fuel and ignition timing	123/339.11	123/339.12; 123/339.19; 123/339.24	Surnilla; Gopichandra et al.
1	US 6925982 B2	20050809	Overall scheduling of a lean burn engine system	123/295	123/198F	Surnilla; Gopichandra et al.
1	US 6915630 B2	20050712	Engine control for a vehicle equipped with an emission control device	60/295	60/274; 60/285; 60/301	Surnilla; Gopichandra et al.
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1	US 6904751 B2	20050614	Engine control and catalyst monitoring with downstream exhaust gas sensors	60/285	60/274; 60/276	Makki; Imad Hassan et al.
1	US 6901327 B2	20050531	Computer instructions for control of multi-path exhaust system in an engine	701/108	123/481; 701/109; 701/112; 701/114; 701/115	Bidner; David Karl et al.
1	US 6879906 B2	20050412	Engine control and catalyst monitoring based on estimated catalyst gain	701/114	123/697; 60/274; 60/275; 60/277; 60/285; 701/108; 701/109; 701/115	Makki; Imad Hassan et al.

1	US 6874490 B2	20050405	Method and system of adaptive learning for engine exhaust gas sensors	123/674	123/198DB; 123/443; 701/109	Surnilla; Gopichandra
1	US 6874312 B2	20050405	Oxidant storage capacity estimation	60/277	60/274; 60/276; 60/285; 701/103	Ingram; Grant Alan et al.
1	US 6868827 B2	20050322	Method for controlling transitions between operating modes of an engine for rapid heating of an emission control device	123/339.11	123/406.23; 123/692; 60/274; 60/284	Surnilla; Gopichandra
1	US 6868667 B2	20050322	Method for rapid catalyst heating	60/285	123/198F; 123/443; 123/481; 60/274; 60/284; 60/289	Surnilla; Gopichandra
1	US 6860100 B1	20050301	Degradation detection method for an engine having a NOx sensor	60/277	204/424; 60/274; 60/276; 60/285	Bidner; David Karl et al.
1	US 6854264 B2	20050215	Computer controlled engine adjustment based on an exhaust flow	60/285	123/443; 60/276; 60/286; 701/103	Elwart; Shane et al.
1	US 6848417 B2	20050201	Lean idle speed control using fuel and ignition timing	123/339.11	123/339.12; 123/339.19; 123/339.24	Surnilla; Gopichandra et al.
1	US 6843051 B1	20050118	Method and apparatus for controlling lean-burn engine to purge trap of stored NOx	60/274	60/276; 60/285	Surnilla; Gopichandra et al.
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1	US 6823843 B1	20041130	System and method to minimize the amount of NO _x released from a NO _x trap	123/435	123/568.11; 123/704	Goralski, Jr.; Christian T. et al.
1	US 6820597 B1	20041123	Engine system and dual fuel vapor purging system with cylinder deactivation	123/520	123/516	Cullen; Michael John et al.
1	US 6810659 B1	20041102	Method for determining emission control system operability	60/277	204/424; 60/274; 60/276	Bidner; David Karl et al.
1	US 6799421 B2	20041005	Engine fueling control for catalyst desulfurization	60/285	60/274; 60/276	Surnilla; Gopichandra
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1	US 6778898 B1	20040817	Computer controller for vehicle and engine system with carbon canister vapor storage	701/109	123/674; 60/274; 60/276	Bidner; David Karl et al.
1	US 6769398 B2	20040803	Idle speed control for lean burn engine with variable- displacement- like characteristic	123/339.19	123/198F; 123/481	Surnilla; Gopichandra et al.
1	US 6766641 B1	20040727	Temperature control via computing device	60/285	123/443; 60/276; 60/286; 701/103;	Surnilla; Gopichandra et al.

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1	US 6763656 B2	20040720	Method and apparatus for optimizing purge fuel for purging emissions control device	60/285	60/274; 60/276	Bidner; David Karl et al.
1	US 6758185 B2	20040706	Method to improve fuel economy in lean burn engines with variable-displacement-like characteristics	123/198F	123/198DB; 123/443; 123/560	Surnilla; Gopichandra et al.
1	US 6754578 B1	20040622	Computer instructions for control of multi-path exhaust system in an engine	701/108	701/110; 701/114	Bidner; David Karl et al.
1	US 6745747 B2	20040608	Method for air-fuel ratio control of a lean burn engine	123/344	123/198F; 123/443; 123/481; 123/672	Surnilla; Gopichandra
1	US 6736120 B2	20040518	Method and system of adaptive learning for engine exhaust gas sensors	123/674	123/198DB; 123/443; 701/109	Surnilla; Gopichandra
1	US 6735939 B2	20040518	System and method for monitoring and exhaust gas sensor in an engine	60/285	60/274; 60/276	Surnilla; Gopichandra
1	US 6735938 B2	20040518	Method to control transitions between modes of operation of an engine	60/274	123/399; 123/406.23; 123/406.47; 123/406.55; 123/481; 477/203	Surnilla; Gopichandra
1	US 6725830 B2	20040427	Method for split ignition timing for idle	123/339.11	123/406.53; 123/406.72; 60/285;	Surnilla; Gopichandra

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1	US 6715462 B2	20040406	Method to control fuel vapor purging	123/198F	123/481; 123/520	Bidner; David Karl et al.
1	US 6708483 B1	20040323	Method and apparatus for controlling lean-burn engine based upon predicted performance impact	60/286	123/436; 60/274; 60/285	Robichaux; Jerry D. et al.
1	US 6691669 B2	20040217	Overall scheduling of a lean burn engine system	123/295	123/198F; 123/481	Surnilla; Gopichandra et al.
1	US 6684631 B2	20040203	Method and system for reducing NOx tailpipe emissions of a lean-burn internal combustion engine	60/285	60/274; 60/286	Surnilla; Gopichandra et al.
1	US 6672053 B2	20040106	Fueling control during emission control device purging	60/285	60/274; 60/276	Bidner; David Karl et al.
1	US 6662638 B2	20031216	System and method for determining degradation of an exhaust gas sensor in an engine	73/118.1		Surnilla; Gopichandra
1	US 6650991 B2	20031118	Closed-loop method and system for purging a vehicle emission control	701/104	60/276; 701/108; 701/109	Farmer; David George et al.
1	US 6629453 B1	20031007	Method and apparatus for measuring the performance of	73/118.1	73/23.32	Surnilla; Gopichandra et al.

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1	US 6622476 B2	20030923	Lean NOx storage estimation based on oxygen concentration corrected for water gas shift reaction	60/276	60/301	Surnilla; Gopichandra et al.
1	US 6604504 B2	20030812	Method and system for transitioning between lean and stoichiometric operation of a lean-burn engine	123/295	123/443; 123/673	Surnilla; Gopichandra et al.
1	US 6594989 B1	20030722	Method and apparatus for enhancing fuel economy of a lean burn internal combustion engine	60/286	60/274; 60/276; 60/285; 73/118.1	Hepburn; Jeffrey Scott et al.
1	US 6594986 B2	20030722	Oxidant storage capacity estimation	60/277	60/274; 60/276; 60/285; 701/109	Ingram; Grant Alan et al.
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1	US 6591604 B2	20030715	Oxygen storage capacity estimation	60/277	60/274; 60/286; 60/295; 60/297	Surnilla; Gopichandra et al.
1	US 6588200 B1	20030708	Method for correcting an exhaust gas oxygen sensor	60/276	60/274; 60/285	Surnilla; Gopichandra et al.
1	US 6574953 B1	20030610	NOx purge air/fuel ratio selection	60/277	60/274; 60/285; 60/286; 60/287;	Ingram; Grant Alan et al.

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1	US 6568177 B1	20030527	Method for rapid catalyst heating	60/285	123/198F; 123/443; 123/481; 60/274; 60/289; 60/290	Surnilla; Gopichandra
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1	US 6543431 B2	20030408	System for air- fuel ratio control	123/685	123/179.4; 123/697	Surnilla; Gopichandra et al.
1	US 6543219 B1	20030408	Engine fueling control for catalyst desulfurization	60/285	60/274; 60/295	Surnilla; Gopichandra
1	US 6539706 B2	20030401	Method and system for preconditioning an emission control device for operation about stoichiometry	60/285	60/274; 60/276; 701/109	Farmer; David George et al.
1	US 6539704 B1	20030401	Method for improved vehicle performance	60/274	60/285	Surnilla; Gopichandra et al.
1	US 6532732 B2	20030318	Method for improved vehicle performance	60/274	60/277; 60/285; 701/123	Surnilla; Gopichandra et al.
1	US 6499293 B1	20021231	Method and system for reducing NOx tailpipe emissions of a lean-burn internal combustion engine	60/285	60/274; 60/276	Surnilla; Gopichandra et al.
1	US 6490860 B1	20021210	Open-loop method and system for controlling the storage and release cycles	60/285	60/274; 60/276; 60/295; 60/297	Farmer; David George et al.

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1	US 6490855 B1	20021210	Fueling control during emission control device purging	60/274	60/276; 60/285	Bidner; David Karl et al.
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1	US 6481199 B1	20021119	Control for improved vehicle performance	60/274	60/285; 60/295	Bidner; David Karl et al.
1	US 6477832 B1	20021112	Method for improved performance of a vehicle having an internal combustion engine	60/285	60/276; 60/277	Surnilla; Gopichandra et al.
1	US 6470869 B1	20021029	Direct injection variable valve timing engine control system and method	123/681	123/90.15	Russell; John David et al.
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1	US 6360530 B1	20020326	Method and apparatus for measuring lean-burn engine emissions	60/274	60/277; 60/285; 60/301	Robichaux; Jerry D. et al.
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1	US 5735255 A	19980407	Engine control system for a lean burn engine having fuel vapor recovery	123/698	123/520	Farmer; David George et al.